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AMENDMENTS TO THE CLAIMS

1.-41. (Canceled)

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- 42. (Previously Presented) A method comprising:
- examining two firmware modules to determine a required order of dispatch of the firmware modules;

dispatching an earlier of the two firmware modules and then dispatching a later of the two firmware modules; and

initializing a system memory after dispatching the two firmware modules.

- 43. (Previously Presented) The method of claim 42 wherein examining comprises checking a resource list of each of the two firmware modules.
- 44. (Previously Presented) The method of claim 42 wherein each of the two modules examines a platform to determine whether hardware to be initialized by the module is present in the platform.
- 45. (Currently Amended) The method of claim 42, further comprising:
 marking a data structure after dispatching a firmware module, wherein the data structure is to indicate whether the firmware module has been dispatched.
- 46. (Previously Presented) The method of claim 45 wherein the data structure is a bit array.
- 47. (Previously Presented) The method of claim 45 wherein the data structure is held in a processor register.
- 48. (Currently Amended) The method of claim 42, further comprising:
 invoking a function contained in a third firmware service-exporting module during a
 dispatch of the earlier firmware module or the later firmware module, wherein

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the third firmware service-exporting module is dispatched before the function contained in the third firmware service-exporting module is invoked.

- 49. (Previously Presented) The method of claim 48 wherein invoking comprises: scanning a daisy chain of firmware modules to find a module that operates with a hardware component present in the platform; and invoking the function if such a module is found.
- 50. (Previously Presented) A computer-readable medium containing instructions to cause a programmable processor to perform operations comprising:

determining dependencies among a plurality of firmware modules based on information about services imported and exported by each of the firmware modules;

dispatching each module of the plurality of firmware modules in an order that satisfies the dependencies; and

initializing a volatile system memory after dispatching the plurality of firmware modules.

51. (Previously Presented) The computer-readable medium of claim 50 wherein the information about services imported and exported by a firmware module comprises:

an import table containing at least one service that may be called by the firmware module; or

an export table containing at least one service provided by the firmware module; or the import table and the export table.

52. (Previously Presented) The computer-readable medium of claim 50, containing additional instructions to cause the programmable processor to perform operations comprising:

maintaining a data structure to indicate which firmware modules of the plurality of firmware modules have been dispatched, wherein the data structure is kept in a register of the programmable processor.

- 53. (Previously Presented) The computer-readable medium of claim 50 wherein dispatching a module comprises saving a return address in a processor register and executing a beginning instruction of the module.
- 54. (Currently Amended) A system comprising:
 - a hardware component to perform a function;
 - a volatile memory that can store data after the volatile memory is initialized; and
- a non-volatile memory containing a Basic Input-Output System ("BIOS") including a BIOS core and a plurality of firmware modules,

wherein two of the firmware modules are to initialize hardware components to perform the function to be examined to determine a required order of dispatch of the firmware modules, and

one of the two firmware modules is to initialize a hardware component that is not present in the system, and

the two of the firmware modules are to be dispatched before the volatile memory is initialized.

- 55. (Previously Presented) The system of claim 54 wherein the volatile memory is a Random Access Memory ("RAM").
- 56. (Previously Presented) The system of claim 54 wherein the non-volatile memory is at least one of a Read-Only Memory ("ROM") or a Flash memory.
- 57. (Canceled)